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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,567	01/28/2005	Jan-Erik Jonsson	003301-220	8905
21839	7590	09/07/2006	EXAMINER	
BUCHANAN, INGERSOLL & ROONEY PC			ASINOVSKY, OLGA	
POST OFFICE BOX 1404				
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER
			1711	

DATE MAILED: 09/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/522,567

Applicant(s)

JONSSON ET AL.

Examiner

Olga Asinovsky

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— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 January 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 01/28/2005.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duff et al. U.S. Patent 5,332,640 or Grandhee U.S. Patent 6,683,145, or Southwick et al U.S. Patent 5,292,795.

Duff discloses a composition having a core dendrimer and interior layers attached to the core. The layers comprising arms composed of repeating units, and terminal functional groups attached to the outermost repeating unit of each arm. The suitable core materials include polyfunctional alcohol, polyfunctional amines, col. 10, lines 40-45.

The interior layers can include amidoamines, ethers, col 9, lines 65-68. The terminal functionalities include hydroxyl groups, carboxylic acid groups, carboxylates, esters, amides, and the like, col. 11, lines 5-8. The toner is a copolymer dispersion, which can be prepared by a dispersion polymerization=emulsion in the presence of a surfactant, col. 12, line 25.

Grandhee'145 discloses an aqueous coating composition prepared by emulsion polymerization in one or two-stage process, col. 2, lines 40-41; col. 4, line 66, using a

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free radical initiator, col. 5, lines 27-34 and 38-65. The polymerizable esters of glycidyl esters and tertiary acid having 9 or more carbon atoms of the formula at col. 3, line 1 is readable in the present claim 8. The emulsion polymer may be polymereized from a monomer mixture that includes an active hydrogen-functional monomer including acid-functional monomer, hydroxyl-functional monomers, column 3, lines 26-67. The emulsion polymer is readable for having a core/shell structure and/or dendritic polymer structure. The emulsion polymer can be used as a coating composition, column 16, lines 23-24.

Soutwick discloses an aqueous polymer dispersion comprising multiblock copolymers that may have a radial structure, col. 3, lines 11-25. The polymer used in the composition is comprised of at least one conjugated diolefin block or at least one acrylic monomer block having the structure at col. 2, line 5 and col. 4, lines 11-44. The polymer dispersion is produced by an emulsion polymerization process in the presence of surfactant=emulsifier. The polymer dispersion is used as water based coating, col. 6, lines 53-65.

It would have been obvious to one of ordinary skill in the art to use coating composition in Duff invention or Grandhee'145 invention, or Southwick invention as a copolymer dispersion therein the terminal group comprises an alkenyl functional group, because the section of the terminal group is depending on the desired application and characteristics of using the emulsion polymer.

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**Conclusion**

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References have been considered. The closest reference is EP 0 899 286.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olga Asinovsky whose telephone number is 571-272-1066. The examiner can normally be reached on 9:00 to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on 571-272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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James J. Seidleck  
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